Clinical Endocrinology

Editors

LESLEY H. REES D. T. BAIRD

Editorial Assistant

T. E. T. WEST

Editorial Board

J. D. N. NABARRO *Chairman*

D. C. ANDERSON
R. I. S. BAYLIS
C. BEARDWELL
C. G. D. BROOK
R. V. BROOKS
C. W. BURKE
B. E. CLAYTON
C. R. W. EDWARDS
H. S. JACOBS
D. R. LONDON
D. S. MUNRO
J. L. H. O'RIORDAN
J. G. RATCLIFFE
P. H. SÖNKSEN

VOLUME 12

Pages 1–637

BLACKWELL SCIENTIFIC PUBLICATIONS

OXFORD LONDON EDINBURGH BOSTON MELBOURNE

1980

Published by Blackwell Scientific Publications Ltd © 1980
Osney Mead, Oxford OX2 0EL

Printed in Great Britain at the Alden Press, Oxford

CONTENTS

VOLUME 12, NUMBER 1, JANUARY 1980

G. F. BOTTAZZO, C. McINTOSH, W. STANFORD and M. PREECE. Growth hormone cell antibodies and partial growth hormone deficiency in a girl with Turner's syndrome 1

R. BENOIT, B. E. PEARSON-MURPHY, F. ROBERT, S. MARCOVITZ, J. HARDY, G. TSOUKAS and R. J. GARDINER. Hyperthyroidism due to a pituitary TSH secreting tumour with amenorrhoea-galactorrhoea 11

W. E. de LANGE, J. J. PRATT and H. DOORENBOS. A gonadotrophin responsive testosterone producing adrenocortical adenoma and high gonadotrophin levels in an elderly woman 21

U. FELDT-RASMUSSEN, R. HYLTOFT PETERSEN, J. DATE and C. M. MADSEN. Sequential changes in serum thyroglobulin (Tg) and its autoantibodies (TgAb) following subtotal thyroidectomy of patients with preoperatively detectable TgAb 29

S. L. LIGHTMAN and M. FORSLING. Evidence for dopamine as an inhibitor of vasopressin release in man 39

P. G. CHIODINI, A. LIUIZZI, G. VERDE, R. COZZI, F. SILVESTRINI, M. T. MARSILI, R. HOROWSKI, F. PASSERINI, G. LUCCARELLI and P. G. BORGHI. Size reduction of a prolactin secreting adenoma during long-term treatment with the dopamine agonist lisuride 47

J. A. H. WASS, A. G. CUDWORTH, G. F. BOTTAZZO, J.C. WOODROW and G. M. BESSER. An assessment of glucose intolerance in acromegaly and its response to medical treatment 53

P. LAURBERG and J. WEEKE. Dynamics of serum rT3 and 3,3′-T2 during rT3 infusion in patients treated for thyrotoxicosis with propylthiouracil or methimazole 61

A. V. GRECO, A. G. REBUZZI, U. BELLATI, F. SERRI, L. ALTOMONTE, R. MANNA and G. GHIRLANDA. Fetal origin of amniotic fluid insulin in the human mother 67

L. ALEXANDER, D. APPLETON, R. HALL, W. M. ROSS and R. WILKINSON. Epidemiology of acromegaly in the Newcastle region 71

W. J. JEFFCOATE, B. M. LAURANCE, C. R. W. EDWARDS and G. M. BESSER. Endocrine function in the Prader-Willi syndrome 81

R. ILLIG, T. TORRESANI, H. BUCHER, M. ZACHMAN and A. PRADER. Effect of intranasal LRHR therapy on plasma LR, FSH and testosterone, and relation to clinical results in prepubertal boys with cryptorchidism 91

Rapid communication

P. KELLY and J. J. MORTON. Antidiuretic hormone immunoreactivity in tumour tissue from patients with bronchogenic carcinoma: with and without hyponatraemia 99

Book reviews 103

Preparation of Papers 104

VOLUME 12, NUMBER 2, FEBRUARY 1980

D. APTER. Serum steroids and pituitary hormones in female puberty: a partly longitudinal study 107

P. YLÖSTALO, A. KAUPPILA, M. REINILÄ, R. TUIMALA and O. YLIKORKALA. Conversion of dehydrospiandrosterone sulphate to oestrogens in intrahepatic cholestasis and other complications of pregnancy 121

R. C. FRANKLIN, G. C. RENNIE, H. G. BURGER and D. P. CAMERON. Endocrine influences on serum acid-ethanol soluble non-suppressible insulin-like activity (NSILA-S) 127

B. DRAZNIN, P. J. BURSTEIN. U. E. HEINRICK, CAROLYN B. JOHNSON, CAROL A. EMLER and D. S. SCHALCH. Insulin-like growth factor and its carrier protein in hypopituitary and hypothyroid children and adults 137

R. DOCTER, G. BOS, T. J. VISSER and G. HENNEMANN. Thyrotrophin binding inhibiting immunoglobulins in Graves' disease before, during and after therapy, and its relation to long-acting thyroid stimulator 143

B. A. MATHER, D. F. ROBERTS, M. F. SCANLON, E. D. MUKHTAR, T. F. DAVIES, B. R. SMITH and R. HALL. HLA antigens and thyroid autoantibodies in patients with Graves' disease and their first degree relatives 155

H. H. GOH, P. C. T. CHEW, S. M. M. KARIM and S. S. RATNAM. Control of gonadotrophin secretion by steroid hormones in castrated male transsexuals. 1. Effects of oestradiol infusion on plasma levels of follicle-stimulating hormone and luteinizing hormone 165

Review article

S. S. C. YEN. The polycystic ovary syndrome 177

Letters to the Editor 209

Rapid communication

M. POURMAND, M. D. RODRIGUEZ-ARNAO, D. R. WEIGHTMAN, R. HALL, D. B. COOK, M. LEWIS and M. F. SCANLON. Domperidone: A novel agent for the investigation of anterior pituitary function and control in man 211

Announcements 217

VOLUME 12, NUMBER 3, MARCH 1980

R. PELKONEN, R. YLIKAHRI and S.-L. KARONEN. Bromocriptine treatment of patients with acromegaly resistant to conventional therapy 219

A. E. BROADUS, R. L. HORST, E. T. LITTLEDIKE, J. E. MAHAFFEY and H. RASMUSSEN. Primary hyperparathyroidism with intermittent hypercalcaemia: serial observations and simple diagnosis by means of an oral calcium tolerance test 225

A. MASALA, S. ALAGNA, L. DEVILLA, G. DELITALA and P. P. ROVASIO. Inhibition of prolactin secretion by nomifensine in man 237

D. M. SLOVIK, R. M. NEER, J. L. OHMAN, F. C. LOWELL, M. B. CLARK, G. V. SEGRE and T. J. POTTS JR. Parathyroid hormone and 25-hydroxyvitamin D levels in glucocorticoid-treated patients 243

M. N. MOREIRA-ANDRES, E. G. BLACK, D. B. RAMSDEN and R. HOFFENBERG. The effect of calorie restriction on serum throid hormone binding proteins and free hormone in obese patients 249

Z. SCHUMERT, A. ROSENMANN, H. LANDAU and A. RÖSLER. 11-deoxycortisol in amniotic fluid: prenatal diagnosis of congenital adrenal hyperplasia due to 11β-hydroxylase deficiency 257

O. YLIKORKALA, A. KAUPPILA, M. REINILÄ and R. TUIMALA. Intra-amniotic or intravenous injection of dehydroepiandrosterone sulphate: simultaneous changes in steroid levels in amniotic fluid and maternal serum 261

J. A. H. WASS, ERICA PENMAN, S. MEDBAK, A. M. DAWSON, D. TSIOLAKIS, V. MARKS, G. M. BESSER and LESLEY H. REES. Immunoreactive somatostatin changes during insulin-induced hypoglycaemia and operative stress in man 269

E. A. ESPINER and R. A. DONALD. Aldosterone regulation in primary aldosteronism: influence of salt balance, posture and ACTH 277

LORRAINE McLOUGHLIN, P. J. LOWRY, SALLY RATTER, G. M. BESSER and LESLEY H. REES. β-endorphin and β-MSH in human plasma 287

D. M. LARGE, D. C. ANDERSON and I. LAING. Twenty-four hour profiles of serum prolactin during male puberty with and without gynaecomastia 293

M. SHAHMANESH, Z. ALI, M. POURMAND and I. NOURMAND. Pituitary function tests in Sheehan's syndrome 303

Rapid Communication

G. DELITALA, L. DEVILLA and G. LOTTI. TSH and prolactin stimulation by the decarboxylase inhibitor benserazide in primary hypothyroidism 313

Letter to the Editor 317

VOLUME 12, NUMBER 4, APRIL 1980

R. D. HOELDTKE, R. A. DONALD and M. G. NICHOLLS Functional significance of idiopathic adrenal calcification in the adult 319

J. BANCROFT, D. W. DAVIDSON, P. WARNER and G. TYRER. Androgens and sexual behaviour in women using oral contraceptives 327

J. G. M. KLIJN, S. W. J. LAMBERTS, F. D. DE JONG, R. DOCTER, K. J. VAN DONGEN and O. C. BIRKENHAGER. The importance of pituitary tumour size patients with hyperprolactinaemia in relation to hormonal variables and extrasellar extension of tumour 341

L. REES, M. L. FORSLING and C. D. G. BROOK. Vasopressin concentrations in the neonatal period 357

P. G. KOPELMAN, T. R. E. PILKINGTON, N. WHITE and S. L. JEFFCOATE. Abnormal sex steroid secretion and binding in massively obese women 363

A. GROSSMAN, J. GIBSON, A. G. STANSFIELD and G. M. BESSER. Pituitary and testicular fibrosis in association with retroperitoneal fibrosis 371

C. G. RAY, J. P. PALMER, JEANETTE R. CROSSLEY and R. H. WILLIAMS. Coxsackie B virus antibody responses in juvenile-onset diabetes mellitus 375

P. DANDONA and D. J. EL KABIR. On incubation of long-acting thyroid stimulator with human thyroid and adrenal homogenates 379

M. B. FORMAN, M. P. SANDLER, A. DANZIGER and W. J. KALK. Basal ganglia calcification in postoperative hypothyroidism 385

B. K. TOONE, M. WHEELER and P. B. C. FENWICK. Sex hormone changes in male epileptics 391

M. O. SAVAGE, M. A. PREECE, S. L. JEFFCOATE, P. G. RANSLEY, G. RUMSBY, M. D. MANSFIELD and D. I. WILLIAMS. Familial male pseudohermaphroditism due to deficiency of 5α-reductase 397

IONE A. KOURIDES, M. B. LANDON, BETH H. HOFFMAN and B. D. WEINTRAUB. Excess free alpha relative to beta subunits of the glycoprotein hormones in normal and abnormal human pituitary glands 407

Book reviews 417

VOLUME 12, NUMBER 5, MAY 1980

C. ROY, M. ROGER, L. BOCCON-GIROD, M. FELLOUS, R. BONNO, J. PASQUALINI and J. P. HARPEY. Clinical, cytogenetical, histological, immunological and hormonal studies in a case of true hermaphroditism 423

J. R. B. J. BROUWERS, J. ASSIES, W. M. WIERSINGA, G. HUIZING and G. N. TYTGAT. Plasma prolactin levels after acute and subchronic oral administration of domperidone and of metoclopramide: a cross-over study in healthy volunteers 435

M. SEPPÄLÄ, T. WAHLSTRÖM, P. LEHTOVIRTA, J. N. LEE and J. LEPPÄLOUTO. Immunohistochemical demonstration of luteinizing hormone-releasing factor-like material in human syncytiotrophoblast and trophoblastic tumours 441

R. A. HARKNESS, N. F. TAYLOR, P. R. BOWMAN, H. GORDON, M. CUMMINS and H. B. VALMAN. The causes of low oestrogen excretion in pregnancy: the development of diagnostic methods for the antenatal detection of familial congenital adrenocortical hypoplasia 453

H. E. CARLSON and R. J. CHANG. Studies on the role of histamine in human pituitary function 461

JILL SCHNEIDER and P. E. LEE. Decreased LH response to the second of consecutive day luteinizing hormone releasing hormone (LHRH) infusion among patients with constitutional delay of puberty: a phenomenon of pubertal maturation? 467

P. F. SEMPLE, P. A. MASON and R. FRASER. Increased 18-hydroxycorticosterone responses to frusemide in essential hypertension 473

T. SARUTA, W. KITAJIMA, M. HAYASHI, E. KATO and S. MATSUKI. Renin and aldosterone in hypothyroidism: relation to excretion of sodium and potassium 483

Review

R. A. DONALD. ACTH and related peptides 491

VOLUME 12, NUMBER 6, JUNE 1980

C. LEJEUNE-LENAIN, F. CANTRAINE, M. DUFRASNES, F. PREVOT, R. WOLTER and J. R. M. FRANCKSON. An improved method for the detection of heterozygosity of congenital virilizing adrenal hyperplasia 525

H. N. COHEN, D. FARRAH, I. FOGELMAN, C. C. GOLL, G. H. BEASTALL, W. B. McINTOSH, M. FLETCHER and I. T. BOYLE. A low dose regime of 1α hydroxyvitamin D_3 in the management of senile osteoporosis: a pilot study 537

J. N. HUGUES, T. COSTE, G. PERRET, M. F. JAYLE, J. SEBAOUN and E. MODIGLIANI. Hypothalamo-pituitary ovarian function in thirty-one women with chronic alcoholism 543

N. M. FRIEDMAN and S. R. PLYMATE. Leydig cell dysfunction and gynaecomastia in adult males treated with alkylating agents 553

ADA R. WOLFSEN and W. D. ODELL. The dose–response relationship of ACTH and cortisol in Cushing's disease 557

J. A. H. WASS, ERICA PENMAN, JILL R. DRYBURGH, D. TSIOLAKIS, P. L. GOLDBERG, A. M. DAWSON, G. M. BESSER and LESLEY H. REES. Circulating somatostatin after food and glucose in man 569

D. A. PERRY-KEENE, R. G. LARKINS, P. HEYMA, C. T. PETER, D. ROSS and J. G. SLOMAN. The effect of long-term diphenylhydantoin therapy on glucose tolerance and insulin secretion: a controlled trial 575

O. R. NILSSON, B. ANDERBERG, B. E. KARLBERG and B. KÅGEDAL. Cortisol, growth hormone and prolactin responses to insulin-induced hypoglycaemia in hyperthyroid patients before and during β-adrenoceptor blockade 581

K. IJAIYA, B. ROTH and A. SCHWENK. The effects of arginine, insulin and metoclopramide on growth hormone, prolactin and cortisol release in children 589

D. F. CHILD, D. E. BU'LOCK and D. C. ANDERSON. Adrenal steroidogenesis in hirsute women 595

J. WRIGHT, A. ABOLFATHI, ERICA PENMAN and V. MARKS. Pancreatic somatostatin presenting with hypoglycaemia 603

ERICA PENMAN, P. J. LOWRY, J. A. H. WASS, V. MARKS, A. M. DAWSON, G. M. BESSER and LESLEY H. REES. Molecular forms of somatostatin in normal subjects and in patients with pancreatic somatostatinoma 611

M. R. DUCHEN and A. S. McNEILLY. Hyperprolactinaemia and long-term lactational amenorrhoea 621

Author index to Volume 12 629

Subject index to Volume 12 635